

Application/Control Number: 09/771,519

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CLAIMS PTO

6/21/06

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1. (currently amended): A method for executing a statement to manipulate data stored in a data store connected to a computer, the method comprising:

receiving the statement for a transaction, wherein the statement operates on one or more objects;

in response to the receipt of the statement for the transaction, automatically generating a private catalog for the transaction to record information about the objects; and

using the private catalog during the transaction to access the objects,

wherein the generating of the private catalog comprises filling in records of the private catalog only with information that relates to tables accessed by the transaction and wherein the private catalog records that relate to tables not accessed by the transaction remain unfilled.

2. (original): The method of claim 1, wherein the private catalog comprises a private copy of an original catalog, wherein the original catalog comprises one or more original individual catalog tables.

3. (original): The method of claim 1, wherein the objects are private objects.

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4. (original): The method of claim 1, wherein the objects are non-private objects.
5. (original): The method of claim 1, wherein the objects are user-defined objects.
6. (original): The method of claim 1, wherein the objects are system objects.
7. (original): The method of claim 1, wherein the private catalog comprises a temporary private catalog.
8. (original): The method of claim 7, wherein the temporary private catalog is deleted from the data stored after a user-defined amount of time.
9. (previously presented): The method of claim 7, further comprising deleting the temporary private catalog from the data store after an amount of time required by a system.
10. (original): The method of claim 7, wherein the temporary private catalog is deleted from the data store after a predetermined amount of time.
11. (original): The method of claim 7, wherein the temporary private catalog is deleted from the data store after the transaction no longer requires object data.
12. (original): The method of claim 7, wherein the temporary private catalog is deleted from the data store after the transaction executes.
13. (original): The method of claim 1, wherein the private catalog is used exclusively by the transaction.

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14. (currently amended): The method of claim 1, wherein the generating of the private catalog comprises filling in records of the private catalog only with ~~only~~ information about that relates to tables accessed by the transaction and wherein the private catalog records that relate to tables not accessed by the transaction remain unfilled.

15. (previously presented): The method of claim 1, further comprising accessing an additional object.

16. (original): The method of claim 15, wherein the private catalog records information about the additional object.

17. (original): The method of claim 1, further comprising populating the private catalog with an identification attribute.

18. (original): The method of claim 17, wherein the identification attribute comprises a description of the object used by the transaction.

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19. (original): The method of claim 17, wherein the identification attribute comprises a definition of the object used by the transaction.

20. (original): The method of claim 1, wherein the statement comprises a data definition language statement.

21. (currently amended): An apparatus for executing a statement to manipulate data, comprising:

a computer having a data store connected thereto, wherein the data store stores data;

and

one or more computer programs, performed by the computer, for receiving the statement for a transaction, wherein the statement operates on one or more objects; in response to the receipt of the statement for the transaction, automatically generating a private catalog for the transaction to record information about the objects; and using the private catalog during the transaction to access the objects,

wherein said generating of the private catalog comprises filling in records of the private catalog only with information about tables accessed by the transaction and wherein the private catalog records remain unfilled for information about tables not accessed by the transaction.

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22. (original): The apparatus of claim 21, wherein the private catalog comprises a private copy of an original catalog, wherein the original catalog comprises one or more original individual catalog tables.

23. (original): The apparatus of claim 21, wherein the objects are private objects.

24. (original): The apparatus of claim 21, wherein the objects are non-private objects.

25. (original): The apparatus of claim 21, wherein the objects are user-defined objects.

26. (original): The apparatus of claim 21, wherein the object are system objects.

27. (original): The apparatus of claim 21, wherein the private catalog comprises a temporary private catalog.

28. (original): The apparatus of claim 27, wherein the temporary private catalog is deleted from the data store after a user-defined amount of time.

29. (previously presented): The apparatus of claim 27, further comprising deleting the temporary private catalog from the data store after an amount of time required by a system.

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30. (original): The apparatus of claim 27, wherein the temporary private catalog is deleted from the data store after a predetermined amount of time.

31. (original): The apparatus of claim 27, wherein the temporary private catalog is deleted from the data store after the transaction no longer requires object data.

32. (original): The apparatus of claim 27, wherein the temporary private catalog is deleted from the data store after the transaction executes.

33. (original): The apparatus of claim 21, wherein the private catalog is used exclusively by the transaction.

34. (currently amended): The apparatus of claim 21, wherein said generating of the private catalog comprises filling in records of the private catalog ~~records~~ only with information about tables accessed by the transaction and wherein the private catalog records remain unfilled for information about tables not accessed by the transaction.



35. (original): The apparatus of claim 21, further comprising accessing an additional object.

36. (original): The apparatus of claim 35, wherein the private catalog records information about the additional object.

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37. (original): The apparatus of claim 21, further comprising population the private
catalog with an identification attribute.

38. (original): The apparatus of claim 37, wherein the identification attribute comprises a
description of the object used by the transaction.

39. (original): The apparatus of claim 37, wherein the identification attribute comprises a
definition of the object used by the transaction.

40. (original): The apparatus of claim 21, wherein the statement comprises a data
definition language statement.

41. (currently amended): An article of manufacture comprising a computer program
carrier readable by a computer and embodying one or more instructions executable by the
computer to perform method steps for executing a statement to manipulate data, comprising:
receiving the statement for a transaction, wherein the statement operates on one or more
objects;
in response to the receipt of the statement for the transaction, automatically generating a
private catalog for the transaction to record information about the objects; and
using the private catalog during the transaction to access the objects,

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wherein the generating of the private catalog comprises filling in the private catalog only with information about tables accessed by the transaction and leaving fields of the private catalog that relate to information about tables not accessed by the transaction blank.

42. (original): The article of manufacture of claim 41, wherein the private catalog comprises a private copy of an original catalog, wherein the original catalog comprises one or more original individual catalog tables.

43. (original): The article of manufacturing of claim 41, wherein the objects are private objects.

44. (original): The article of manufacture of claim 41, wherein the objects are non-private objects.

45. (original): The article of manufacture of claim 41, wherein the objects are user-defined objects.

46. (original): The article of manufacture of claim 41, wherein the objects are system objects.

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47. (original): The article of manufacture of claim 41, wherein the private catalog comprises a temporary private catalog.

48. (original): The article of manufacture of claim 47, wherein the temporary private catalog is deleted from the data store after a user-defined amount of time.

49. (previously presented): The article of manufacture of claim 47, further comprising deleting the temporary private catalog from the data store after an amount of time required by a system.

50. (original): The article of manufacture of claim 47, wherein the temporary private catalog is deleted from the data store after a predetermined amount of time.

51. (original): The article of manufacture of claim 47, wherein the temporary private catalog is deleted from the data store after the transaction no longer requires object data.

52. (original): The article of manufacture of claim 47, wherein the temporary private catalog is deleted from the data store after the transaction executes.

53. (original): The article of manufacture of claim 41, wherein the private catalog is used exclusively by the transaction.

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54. (currently amended): The article of manufacture of claim 41, wherein the generating of the private catalog comprises filling in the private catalog records only with information about tables accessed by the transaction and leaving fields of the private catalog that relate to information about tables not accessed by the transaction blank.

55. (original): The article of manufacture of claim 41, further comprising accessing an additional object.

56. (original): The article of manufacture of claim 55, wherein the private catalog records information about the additional object.

57. (original): The article of manufacture of claim 41, further comprising populating the private catalog with an identification attribute.

58. (original): The article of manufacture of claim 57, wherein the identification attribute comprises a description of the object used by the transaction.

59. (original): The article of manufacture of claim 57, wherein the identification attribute comprises a definition of the object used by the transaction.

60. (original): The article of manufacture of claim 41, wherein the statement comprises data definition language statement.

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61. (currently amended): A method for executing a statement to manipulate data stored in a data store connected to a computer, the method comprising:

receiving the statement for operating at least one object in the data store;

in response to the receipt of the statement, automatically generating a private copy of system information for said at least one object;

accessing said at least one object in the data store based on information in the generated private copy,

wherein the private copy of the system information is a catalog table partially filled in only with the system information about said at least one object.

62. (previously presented): The method according to claim 61, wherein the system information is a system database.

63. (previously presented): The method according to claim 61, wherein the system information is a directory storing said at least one object's location in the data store and related data for access and manipulation of said at least one object.

63. (previously presented): The method according to claim 61, wherein the system information is a directory storing said at least one object's location in the data store and related data for access and manipulation of said at least one object.

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64. (currently amended): The method according to claim 61, wherein the private copy of the system information is a catalog table partially filled in only with the system information about said at least one object.

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65. (previously presented): The method according to claim 61, further comprising transferring changes made to the private copy of the system information into original system information data store.

66. (previously presented): The method according to claim 61, wherein the system information is a catalog and wherein the private copy of the catalog is generated only when an actual lock contention occurs.

67. (previously presented): The method according to claim 66, wherein the actual lock contention occurs when there is more than one statement for operating on the same object in the data store.